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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,419	07/17/2003	Yukio Furukawa	03560.003331.	9615
5514	7590 08/08/2005		EXAMINER	
FITZPATRICK CELLA HARPER & SCINTO			NGUYEN, TUAN N	
	KEFELLER PLAZA DRK, NY 10112		ART UNIT	PAPER NUMBER
	•		2828	
			DATE MAILED: 08/08/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		<u>,</u>			
	Application No.	Applicant(s)			
	10/620,419	FURUKAWA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Tuan N. Nguyen	2828			
The MAILING DATE of this communication appeariod for Reply	pears on the cover sheet with the o	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin - earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tingly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed rs will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).			
Status		•			
1) Responsive to communication(s) filed on 23 h	May 2005	•			
· - · · · · · · · · · · · · · · · · · ·	s action is non-final.				
3) Since this application is in condition for allowa		osecution as to the merits is			
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
 4) Claim(s) 1-10 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine	er.	· <u>.</u>			
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E.		•			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicati prity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/12/2003	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal P 6) Other:				

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Election/Restriction

1. Applicant's election of species 1 with traverse in paper filed 05/23/2005 is acknowledged. The traversal is on the ground(s) that, species of Figure 1 and claim 1 is generic to each of the species. Restriction has been withdrawn.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or non-obviousness.
- 3. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Furukawa (US 6919985) in view of Shichijyo et al. 5809048.

With respect to claims 1, 5-7 Furukawa '985 shows an optical wavelength apparatus comprising first and second semiconductor and a wavelength converter for converting first laser and second laser to sum frequency light (Fig 1: 11, 19, 31) (ABSTRACT; Col 1: 40-50), and

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shows a second laser light that can propagate through wavelength converting (Fig 1: 25). The claim further requires that first laser can be put under a resonant. Shichijyo et al. '048 discloses a wavelength stabilized laser system with 1st and 2nd laser inputs, a wavelength selecting element, and reflection means for resonant for the lasers (Col 7-8: 1-45) (Fig 20,30). It would have been obvious to one of ordinary skill in the art to provide Furukawa '985 with the resonant means as taught or suggested by Shichijyo et al. '048, for the benefit increase the beam intensity.

With respect to claim 2, 8 (Fig 1: 19, 11, 31) shows the second laser light enter through a place between first semiconductor and wavelength converting element.

With respect to claims 3, 4, 9, 10 the claims further require second semiconductor is arranged such that the second laser light can enter wavelength converting element through a place opposite of first semiconductor laser, or the second semiconductor laser can enter the wavelength converting element though first semiconductor. It has been held that rearranging parts of an invention involves only routine skill in the art, in this case arranging the angle or direction of input of the second lasers in relation with the first laser to provide summation output. In re Japikse, 86 USPQ 70.

Communication Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan N Nguyen whose telephone number is (571) 272-1948. The examiner can normally be reached on M-F: 7:30 - 4:30PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harvey Minsun can be reached on (571) 272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tuan N. Nguyen

MINSUN OH HARVEY PRIMARY EXAMINER